

CLAIMS

1. A process for the extraction of ethanol from a
5 solution, characterized by bringing the solution into contact
with a bed of salt, whereby the salt adsorbs ethanol from the
solution, removing the solution from the salt bed, heating of
the salt bed in order to release the ethanol adsorbed thereby
as vapour and collecting the ethanol.
- 10 2. A process according to Claim 1, characterized in
that the salt is $\text{Mg}_3(\text{PO}_4)_2$.
3. A process according to Claim 1 or 2, characterized in
15 that the salt preferentially adsorbs ethanol molecules from a
low-grade ethyl-alcohol solution, whereby high-grade ethanol
can be obtained from the low concentration alcohol solution,
in a one-step process.
- 20 4. A process according to any of Claims 1-3, characterized
in that the solution consists of a low-grade ethyl-alcohol
liquid which has been separated from a mash.
5. A process according to any of Claims 1-4, characterized
25 by passing a flow of the solution through the bed, sensing
the ethyl-alcohol content of the solution leaving the bed,
and stopping the input flow to the bed when the sensed alco-
hol content of the solution leaving the bed significantly
raises above 0%, and collecting the solution leaving the bed
30 and having an alcohol content of about 0%.